

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

Docket No. 874.0105.U1(US)  
NC33266/NC33269

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**DIRECT CONVERSION RECEIVER ARCHITECTURE**

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate(s) listed below and have also identified below any foreign application(s) for patent or inventor's certificate(s) having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

Number

Country

Day/Mon/Year Filed)

\_\_\_ Yes \_\_\_ No

I hereby claim benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial No.      Filing Date      Status

---

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the attorneys and/or agents listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**NAMES****REGISTRATION NUMBERS**

Steven Shaw	39,368
Brian Rivers	41,270
Milan Patel	41,242

and all Attorneys and/or Agents listed under **Customer Number: 29683** including:

Mark Harrington	31,686
Harry Smith	32,493
Kevin Correll	46,641

**SEND CORRESPONDENCE TO:**

Customer Number: **29683**.

**DIRECT TELEPHONE CALLS TO:**

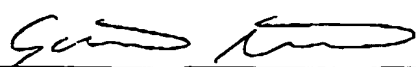
Harry F. Smith  
Telephone: (203) 366-4084  
Facsimile: (203) 366-4109

Harrington & Smith LLP  
109 Black Rock Turnpike  
Fairfield, CT 06432

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**(1) Inventor:**FULL NAME  
OF INVENTORLAST NAME  
VilhonenFIRST NAME  
Sami

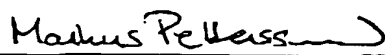
MIDDLE INITIAL

RESIDENCE & CITY  
CITIZENSHIPSTATE OR COUNTRY  
FinlandCITIZENSHIP  
FinlandPOST OFFICE  
ADDRESSP.O. ADDRESS  
Ritavuorenkuja 1 F 27CITY & COUNTRY  
FIN-20540 Turku FinlandInventor's  
Signature

Date Jan 21, 2002

**(2) Inventor:**FULL NAME  
OF INVENTORLAST NAME  
PetterssonFIRST NAME  
Markus

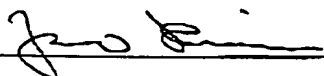
MIDDLE INITIAL

RESIDENCE & CITY  
CITIZENSHIPSTATE OR COUNTRY  
FinlandCITIZENSHIP  
FinlandPOST OFFICE  
ADDRESSP.O. ADDRESS  
~~Kingelininkatu 4 B 44~~  
LINDALINTIE 27 A 4CITY & COUNTRY  
~~FIN-20700 Turku Finland~~  
FIN 00240 KIEKKONUMMI  
FINLANDInventor's  
Signature

Date Jan 21, 2002

**(3) Inventor:**FULL NAME  
OF INVENTORLAST NAME  
HeinonenFIRST NAME  
Jarmo

MIDDLE INITIAL

RESIDENCE & CITY  
CITIZENSHIPSTATE OR COUNTRY  
FinlandCITIZENSHIP  
FinlandPOST OFFICE  
ADDRESSP.O. ADDRESS  
Katajarinne 11CITY & COUNTRY  
FIN-24280 Salo FinlandInventor's  
Signature

Date Jan 21, 2002

For ☒ U.S. and/or ☒ Foreign Rights  
For ☒ U.S. Application or ☐ U.S. Patent  
For ☐ PCT Application  
By Single or Multiple Inventors

**ASSIGNMENT OF INVENTION**

Docket No. 874.0105.U1(US)

NC33266/NC33269

in accordance with an agreement between ASSIGNEE and ASSIGNOR, if one name be listed below, or ASSIGNORS, if more than one name be listed below, and for good and valuable consideration,

**(1) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR	LAST NAME Vilhonon	FIRST NAME Sami	MIDDLE INITIAL
RESIDENCE & CITY CITIZENSHIP	STATE OR COUNTRY Finland	CITIZENSHIP Finland	
POST OFFICE ADDRESS	P.O. ADDRESS Ritavuorenkuja 1 F 27	CITY & COUNTRY FIN-20540 Turku Finland	

**(2) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR	LAST NAME Pettersson	FIRST NAME Markus	MIDDLE INITIAL
RESIDENCE & CITY CITIZENSHIP	STATE OR COUNTRY Finland	CITIZENSHIP Finland	
POST OFFICE ADDRESS	P.O. ADDRESS Kingelininkatu 4 B 44	CITY & COUNTRY FIN-20700 Turku Finland	

**(3) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR	LAST NAME Heinonen	FIRST NAME Jarmo	MIDDLE INITIAL
RESIDENCE & CITY CITIZENSHIP	STATE OR COUNTRY Finland	CITIZENSHIP Finland	
POST OFFICE ADDRESS	P.O. ADDRESS Katajarinne 11	CITY & COUNTRY FIN-24280 Salo Finland	

hereby sell(s), assign(s) and transfer(s) to

[illegible]

and the successors, assigns and legal representatives of the ASSIGNEE

for the United States and its territorial possessions

in and to any and all improvements which are disclosed in the invention entitled:

that is found in

X and any legal equivalent thereof in a foreign country,  
including the right to claim priority


ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

2


IN WITNESS WHEREOF, I (We) have hereunto set hand and seal this

Jan 21, 2002 (Date(s) of Signing).

(1) **Sami Vilhonen**  
Assignor Name

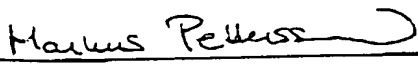
  
Signature

Witnessed by

  
Signature

Jan 21, 2002  
Date

(2) **Markus Pettersson**  
Assignor Name

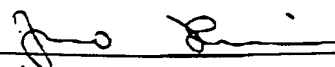
  
Signature

Witnessed by

  
Signature

Jan 21, 2002  
Date

(3) **Jarmo Heinonen**  
Assignor Name

  
Signature

Witnessed by

  
Signature

Jan 21, 2002  
Date



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

MARCH 27, 2002

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

HARRY F. SMITH  
HARRINGTON & SMITH, LLP  
1809 BLACK ROCK TURNPIKE  
FAIRFIELD, CT 06432



\*101970319A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/24/2002

REEL/FRAME: 012523/0160  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
VILHONEN, SAMI

DOC DATE: 01/21/2002

ASSIGNOR:  
PETTERSSON, MARKUS

DOC DATE: 01/21/2002

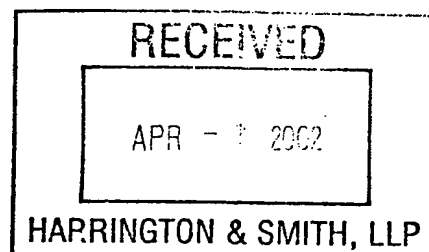
ASSIGNOR:  
HEINONEN, JARMO

DOC DATE: 01/21/2002

ASSIGNEE:  
NOKIA CORPORATION  
KEILALAHDENTIE 4, 02150  
ESPOO, FINLAND FIN-02150

SERIAL NUMBER: 10054568  
PATENT NUMBER:

FILING DATE: 01/22/2002  
ISSUE DATE:



Appendix C

012523/0160 PAGE 2

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



02-04-2002



101970319

Dol. No.: 874.0105.U1(US)

HEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ab settings → → → ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

Name of conveying party(ies):

Sami Vilhonen  
Markus Pettersson  
Jarmo Heinonen

01/22/02

2. Name and address of receiving party(ies):

Name: Nokia Corporation

Address: Keilalahdentie 4, 02150



Additional names(s) of conveying party(ies)

☐ Yes ☒ No

Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

City: Espoo State/Prov.: \_\_\_\_\_

Country: Finland ZIP: FIN-02150

Execution Date: January 21, 2002

Additional name(s) & address(es) ☐ Yes ☒ No

Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: January 21, 2002

Patent Application No. Filing date

01/29/2002 MDANTE1 00000030 10054568

03 FC:581

40.00 DP

B. Patent No.(s)

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Harry F. Smith

Registration No. 32,493

Address: Harrington & Smith, LLP

1809 Black Rock Turnpike

City: Fairfield State/Prov.: CT

Country: \_\_\_\_\_ ZIP: 06432

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

50-1924

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Harry F. Smith

Name of Person Signing

Signature

January 22, 2002

Date

4

Total number of pages including cover sheet, attachments, and

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**